

PROGRESS REPORT
For
VERSATILE, HIGH PRECISION STEREO
POINT TRANSFER DEVICE

Period Covered: August 1966
Dated: 16 September 1966
Job No.: #552, #552A
Document No.: OD-302

Declass Review by
NIMA/DOD

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Progress Report 552, 552A for August 1966

The following has been the work on these systems:

552

To further study sources of measurement errors in the system, the remaining 552A was partially torn down. Ways and their supports were investigated with results similar to those found in Washington. A major part of way straightness error can be attributed to the supports especially in the Y plane. Since great pains were originally taken in these areas casting warpage can be the only explanation of these errors.

Correction of these problems was seen as a lengthy process as carriages would be disassembled and minute adjustments made to way supports, while ways would be precision ground or re-made.

At a meeting on August 19, 1966, with customer's representatives, problems concerning measurement errors and point marking were discussed. Agreement for solution with measurement problems was seen in establishment of the repeatability of measurements, and if acceptable, machine calibration would follow. To accomplish this, would make necessary tests and

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I don't think this is acceptable
adjustments to minimize repeat measurement errors then make
measurement runs to document machine's repeatability over a period
of a week.
in light of our previous discussions,

Laser point marking system problems would be worked on
between measurement runs, with all possible efforts made to com-
plete work by October 1, 1966.

With the above work load, trips were made during weeks
of 22 and 29 August 1966, completing first phases of both problems.
With progress made in August, all work on 552 systems should be
completed by October 1, 1966.

552A #104

The system was rebuilt after completing exploratory
work for 552. Image alternator was not released to shop in
August because of problems in vibration isolation scheme. How-
ever, controls and circuitry have been designed and detailed for
release to shop.

552A #103

Customer has reported film scratching, failures in lens
turret indexing and scanning drive. A visit was made to investi-
gate film scratching with a conclusion that improved rear mani-
folds will be installed during a current 552 trip. The electrical
problems will be similarly checked out, although the electronic
technicians work load on 552 will delay this work until September.
In addition to the above, a "teflon" pressure sensitive tape will
be applied to the shelf in a September trip to reduce optics cable
sticking and marking of shelf.

Enclosure

1) Financial Report

where is this?

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Approved For Release 2003/01/28 : CIA-RDP78B04747A002900040057-5

Approved For Release 2003/01/28 : CIA-RDP78B04747A002900040057-5